STANDARD STRAIGHT BAR

BAR SIZE	* LOCATION CATEGORY		
	А	В	C
#.4	'- ''	1'-4''	'- ''
#5	2'-4''	l'-8''	1'-4''
#6	2'-10''	2'-0''	1'-8''
#.7	3'-4''	2'-5''	'- ''
#.8	4'-5''	3'-2''	2'-7''
#.9	5'-7''	4'-0''	3'-3''
#10	7′-1′′	5′-1′′	4'-1''
#.[]	8'-8''	6'-3''	5'-0''

* LOCATION CATEGORY:

- A-Bars in horizontal layers in top of pour with 12" or more of concrete below them such as in: footings, pier caps, etc.
- B-All bars not in Category A spaced less than 6" apart. C-All bars not in Category A spaced 6" or more apart.

FHWA APPROVAL

DATE:

- I. When development length is not specified on the Plans, the above dimensions shall be used.
- 2. These development lengths only apply to 4500 P.S.I. lightweight concrete.
- 3. These development lengths only apply where the

General Notes indicate "Reinforcing Steel Design, fs= 24,000 p.s.i.'

4.If depth of member does not allow bar development length indicated in Categories A, B, and C: then hook shall be added to all bars not conforming, as per D, E, and F per Std. No. M(6.09)-86-179.

APPROVAL			
C.5 Freedom DIRECTOR OFFICE OF BRIDGE DEVEL.			
DATE: 2/2/90			
REVISIONS			
SHA	FHWA		
11-23-93			
1-22-01			

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF BRIDGE DEVELOPMENT
DEVELOPMENT LENGTH DIMENSIONS FOR GRADE 60 REINFORCING STEEL
IN LIGHTWEIGHT (4500 P.S.I.) CONCRETE
NON-EPOXY COATED REINFORCING

9-20-05 **STANDARD NO.** M(6,15)-90-215 12-4-07

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